

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 09-322113

(43)Date of publication of application : 12.12.1997

(51)Int.Cl.

H04N 5/91
B41J 2/00
H04N 1/387
H04N 5/765

(21)Application number : 08-156104

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(22)Date of filing : 28.05.1996

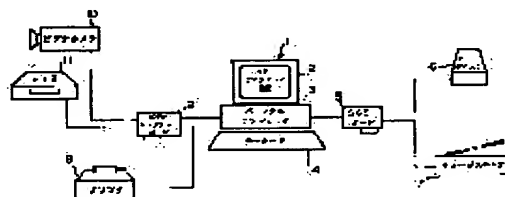
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(54) METHOD AND DEVICE FOR EDITING IMAGE

(57)Abstract:

PROBLEM TO BE SOLVED: To grasp the entire contents or story of still pictures at a glance by reading one or plural still pictures from moving images or still pictures and editing them according to an editing form.

SOLUTION: When any desired picture to be selected is instructed out of picture moving images displayed on the display screen of a color display device 2 by operating a keyboard 4, the image of the selected picture is sent to a personal computer(PC) 3 as a still picture. Besides, when any image is inputted by an image scanner 7 concerning the still picture of photographing or drawing, the inputted still picture is sent through an SCSI board 5 to the PC 3. At the PC 3, the colors of the still picture selected out of images read by an image reader like this are automatically corrected, an index is added according to the operation of the keyboard 4 due to the operator, and the still picture is edited according to the selected still picture editing form suitable for that still picture.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]

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CLAIMS

[Claim(s)]

[Claim 1] The image read in process in which an image is read, and the static-image incorporation process in which the static image of the image read in this image read in process is incorporated on a storage, The static-image edit form selection process which chooses the static-image edit form which suits the above-mentioned static image incorporated in this static-image incorporation process from the static-image edit form files memorized by the storage, The image edit approach characterized by including the static-image edit process in which the above-mentioned static image incorporated in the above-mentioned static-image incorporation process is edited according to the static-image edit form chosen in the above-mentioned static-image edit form selection process.

[Claim 2] The image read in process in which an image is read from an image recording medium, and the color amendment process which carries out color amendment about the static image of the read above-mentioned image, The static-image incorporation process in which each above-mentioned static image is incorporated on a storage, The static-image edit form selection process which chooses the static-image edit form which suits the above-mentioned static image incorporated in this static-image incorporation process from the static-image edit form files memorized by the storage, The image edit approach characterized by including the static-image edit process in which the above-mentioned static image incorporated in the above-mentioned static-image incorporation process is edited according to the static-image edit form chosen in the above-mentioned static-image edit form selection process.

[Claim 3] The image edit approach characterized by including the printing process which prints the edited static image on the storage edited in the above-mentioned static-image edit process as a visible static image in the image edit approach according to claim 1 or 2.

[Claim 4] The image read in equipment which reads an image, and the static-image incorporation equipment which incorporates and memorizes the static image of the image read by this image read in equipment, A static-image edit form selection means to choose the static-image edit form which suits the above-mentioned static image incorporated by this static-image incorporation equipment from the static-image edit form files memorized by the storage, Image edit equipment characterized by having static-image edit equipment into which the above-mentioned static image incorporated by the above-mentioned static-image incorporation equipment is edited according to the static-image edit form chosen by the above-mentioned static-image edit form selection means.

[Claim 5] The image read in equipment which reads an image from an image recording medium, and the color compensator which carries out color amendment about the static image of the read above-mentioned image, A static-image edit form selection means to choose the static-image edit form which suits the static image carried out in color amendment by this color compensator from the static-image edit form files memorized by the storage, Image edit equipment characterized by having static-image edit equipment into which the static image carried out in the above-mentioned color amendment is edited according to the static-image edit form chosen by the above-mentioned static-image edit form selection means.

[Claim 6] Image edit equipment characterized by having the airline printer which prints the edited

static image on the storage edited by the above-mentioned static-image edit equipment as a visible static image in image edit equipment according to claim 4 or 5.

[Claim 7] With the image read in instruction part which an image read in instruction is given [instruction part] to image read in equipment, and makes an image read With the storage instruction part which a storage instruction is given [instruction part] to a storage and makes each above-mentioned static image memorize so that the static image of the image read by the above-mentioned image read in equipment may be memorized The static-image edit form which suits the above-mentioned static image stored in the above-mentioned storage with a storage With the static-image edit form selection instruction part which a static-image edit form selection instruction is given [instruction part] to a static-image edit form selection means, and makes static-image edit form choose so that it may choose from the static-image edit form files memorized The above-mentioned static image memorized by the storage which memorizes the above-mentioned static image with the above-mentioned static-image edit form selection means Image edit equipment characterized by having the static-image editing-instruction section which a static-image editing instruction is given [section] to static-image edit equipment, and makes a static image edit into it so that it may edit according to the selected static-image edit form.

[Claim 8] Image edit equipment characterized by having the color amendment instruction part which a color amendment instruction is given [instruction part] to a color compensator and does color amendment so that color amendment may be carried out in image edit equipment according to claim 7 about the static image of the above-mentioned image read by the above-mentioned image read in equipment.

[Claim 9] Image edit equipment characterized by having the printing instruction part which makes it print by giving a printing instruction to an airline printer so that the edited static image on the storage edited by the above-mentioned static-image edit equipment may be printed as a visible static image in image edit equipment according to claim 7 or 8.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention reads the static image of one sheet or two or more sheets out of static images, such as dynamic images, such as a television picture and an image transcription image of video, or a photograph, and drawing. According to edit form, edit the read static image, and it enables it to grasp the contents and the plot of the edited whole static image at a glance. It is related with the image edit approach and image edit equipment which print the image furthermore edited if needed and enabled it to create a printing image or the collections of printing images, such as a memorial stand.

[0002]

[Description of the Prior Art] Conventionally, when saving various images and image transcription record, an image and image transcription record were recorded on image transcription media, such as a video tape, and the header was attached to the recorded image transcription medium, and it considered creating the index of an image transcription and saving an image and image transcription record. However, it is impossible to grasp the whole outlines, such as the main point of the image currently recorded, and an outline, an outline of a story, at a glance, even if it lets a header and an index pass. Especially the record medium as data is a record medium of an invisible gestalt in a form as it is like a video tape, and when the number of preservation covers a large number, it is difficult to remember the outline of the contents immediately only with a header or an index much more. Moreover, even if it was the case where he wanted to save some television pictures as a static image, for example, the simple equipment with which ordinary viewers take out some television pictures as a static image simply at home, and can save it did not have the former. furthermore, the photograph and drawing which were recorded for every various event or event although it stuck on the album, or it only put and usually being saved about static images, such as a photograph or drawing, -- many -- when covering several sheets, there was no suitable means by which the recollections of the whole and the outline of record could be grasped at a glance, conventionally.

[0003]

[Problem(s) to be Solved by the Invention] Thus, since there was no means which can be saved in the form where the outline of static images, such as an outline of dynamic images, such as an image and image transcription record, and a photograph, and drawing, can be grasped at a glance conventionally, In saving the record and data which were recorded on videotape, or stopping an image memorizing to storage The approach for enabling it to save in the form where the outline of static images, such as an outline of dynamic images, such as an image and image transcription record, and a photograph, and drawing, can be grasped at a glance, or an appearance of equipment was desired.

[0004] Then, this invention reads the static image of one sheet or two or more sheets out of static images, such as dynamic images, such as a television picture and an image transcription image of video, or a photograph, and drawing. According to edit form, edit the read static image, and it enables it to grasp the contents and the plot of the edited whole static image at a glance.

It aims at offering the image edit approach and image edit equipment which print the image furthermore edited if needed and enabled it to create a printing image or the collections of printing images, such as a memorial stand."

[0005]

[Means for Solving the Problem] In order to attain the above-mentioned purpose, the image edit approach of this invention The image read in process in which an image is read, and the static-image incorporation process in which the static image of the image read in this image read in process is incorporated on a storage, The static-image edit form selection process which chooses the static-image edit form which suits the above-mentioned static image incorporated in this static-image incorporation process from the static-image edit form files memorized by the storage, The static-image edit process in which the above-mentioned static image incorporated in the above-mentioned static-image incorporation process is edited according to the static-image edit form chosen in the above-mentioned static-image edit form selection process is included. Moreover, the image read in process in which the image edit approach of this invention reads an image from an image recording medium, The color amendment process which carries out color amendment about the static image of the read above-mentioned image, The static-image incorporation process in which each above-mentioned static image is incorporated on a storage, The static-image edit form selection process which chooses the static-image edit form which suits the above-mentioned static image incorporated in this static-image incorporation process from the static-image edit form files memorized by the storage, The static-image edit process in which the above-mentioned static image incorporated in the above-mentioned static-image incorporation process is edited according to the static-image edit form chosen in the above-mentioned static-image edit form selection process is included. Furthermore, the image edit approach of this invention includes the printing process which prints the edited static image on the storage edited in the above-mentioned static-image edit process as a visible static image. Moreover, the image read in equipment with which the image edit equipment of this invention reads an image, The static-image incorporation equipment which incorporates and memorizes the static image of the image read by this image read in equipment, A static-image edit form selection means to choose the static-image edit form which suits the above-mentioned static image incorporated by this static-image incorporation equipment from the static-image edit form files memorized by the storage, It has static-image edit equipment into which the above-mentioned static image incorporated by the above-mentioned static-image incorporation equipment is edited according to the static-image edit form chosen by the above-mentioned static-image edit form selection means. Furthermore, the image read in equipment with which the image edit equipment of this invention reads an image from an image recording medium, The color compensator which carries out color amendment about the static image of the read above-mentioned image, A static-image edit form selection means to choose the static-image edit form which suits the static image carried out in color amendment by this color compensator from the static-image edit form files memorized by the storage, It has static-image edit equipment into which the static image carried out in the above-mentioned color amendment is edited according to the static-image edit form chosen by the above-mentioned static-image edit form selection means. Moreover, the image edit equipment of this invention is equipped with the airline printer which prints the edited static image on the storage edited by the above-mentioned static-image edit equipment as a visible static image. With furthermore, the image read in instruction part which the image edit equipment of this invention gives [instruction part] an image read in instruction to image read in equipment, and makes an image read With the storage instruction part which a storage instruction is given [instruction part] to a storage and makes each above-mentioned static image memorize so that the static image of the image read by the above-mentioned image read in equipment may be memorized The static-image edit form which suits the above-mentioned static image stored in the above-mentioned storage with a storage With the static-image edit form selection instruction part which a static-image edit form selection instruction is given [instruction part] to a static-image edit form selection means, and makes static-image edit form choose so that it may choose from the static-image edit form files memorized The above-mentioned static image memorized by the storage which memorizes the

above-mentioned static image with the above-mentioned static-image edit form selection means. It has the static-image editing-instruction section which a static-image editing instruction is given [section] to static-image edit equipment, and makes a static image edit into it so that it may edit according to the selected static-image edit form. Moreover, the image edit equipment of this invention is equipped with the color amendment instruction part which a color amendment instruction is given [instruction part] to a color compensator and does color amendment so that color amendment may be carried out about the static image of the above-mentioned image read by the above-mentioned image read in equipment. Furthermore, the image edit equipment of this invention is equipped with the printing instruction part which makes it print by giving a printing instruction to an airline printer so that the edited static image on the storage edited by the above-mentioned static-image edit equipment may be printed as a visible static image.

[0006]

[Embodiment of the Invention] Hereafter, a drawing explains the gestalt of operation of this invention. One example of the personal computer used for it in case this invention is carried out in drawing 1 , and its peripheral device is shown. In drawing 1 , the image edit equipment 1 of this invention is equipped with the personal computer 3 to which color display equipment 2 and a keyboard 4 were connected, while the hard disk drive unit 6 and the image scanner 7 are connected through the SCSI board (peripheral-device interface for small computers) 5, respectively, a printer 8 is connected to this personal computer 3, and the video camera 10 and the video tape recorder 11 are further connected to it through the video capture board 9, respectively.

[0007] As a throughput of CPU (central processing unit) of image edit equipment 1, they are 100MHZ(s), for example. The above thing is desirable and the storage capacity of main memory has 16MB or more of desirable thing. Moreover, as for the storage capacity of HDD (hard disk drive unit) with a built-in computer, about 1GB of thing is recommended. Color display equipment 2 is made into the thing of full color correspondence, and, as for the hard disk drive unit 6 of external connection, the thing of a removable method is recommended.

[0008] In the editing task of an image, dynamic images, such as an image transcription image recorded on videotape by the photography image photoed with the video camera 10, or the video tape recorder 11. Making it display on the display screen of color display equipment 2 through a video capture board 9. A keyboard 4 is operated, and if a screen to choose from the dynamic images displayed on the display screen of color display equipment 2 is directed, the image of the selected screen will be sent to a personal computer 3 as a static image. Moreover, if an image input is carried out about static images, such as a photograph and drawing, with an image scanner 7 to choose and read the static image of one sheet or two or more sheets out of static images, such as not a dynamic image but the photograph by above video cameras 10 and video tape recorders 11, and drawing, the static image carried out in the image input with this image scanner 7 will be sent to a personal computer 3 through the SCSI board 5.

[0009] The color compensator which carries out color amendment automatically about the static image chosen as the personal computer 3 from the above-mentioned images read by image read in equipment as mentioned above, The index grant equipment which gives an index according to actuation of the keyboard 4 by the operator about the static image carried out in color amendment by this color compensator, The equipment which stores in static-image storage each above-mentioned static image to which the index was given by this index grant equipment, The static-image edit form selecting arrangement which chooses the static-image edit form which suits the above-mentioned static image memorized by this static-image storage from the static-image edit form files memorized by the storage, It has static-image edit equipment into which the above-mentioned static image memorized by the above-mentioned static-image storage is edited according to the static-image edit form chosen by the above-mentioned static-image edit form selecting arrangement. The printer 8 as an airline printer which prints the edited static image on the storage further edited by the above-mentioned static-image edit equipment as a collection of visible static images is connected to the personal computer 3.

[0010] Timing adjustment for making actuation of each equipment, such as equipment which stores a static image in the above-mentioned color compensator, index grant equipment, and

static-image storage, a static-image edit form selecting arrangement, static-image edit equipment, and an airline printer, and cooperation actuation of each [these] equipment perform is performed according to the instruction signal from the instruction storage medium which operates under an operator's keyboard grabbing.

[0011] With the image read in instruction part which the above-mentioned instruction storage medium gives [instruction part] an image read in instruction to image read in equipment, and makes an image read With the color amendment instruction part which a color amendment instruction is given [instruction part] to a color compensator and does color amendment so that color amendment may be carried out about the image chosen as a static image from the above-mentioned images read with the above-mentioned image read in equipment With the index grant instruction part which an index grant instruction is given [instruction part] to an indexing means and makes an index give so that an index may be given about the static image read with the above-mentioned image read in equipment With the storage instruction part which makes each static image with which the storage instruction was given to the storage and the above-mentioned index was given so that each above-mentioned static image with which the index was given by the above-mentioned indexing means might be memorized memorize The static-image edit form which suits the above-mentioned static image stored in the above-mentioned storage with a storage With the static-image edit form selection instruction part which a static-image edit form selection instruction is given [instruction part] to a static-image edit form selection means, and makes static-image edit form choose so that it may choose from the static-image edit form files memorized The static-image editing-instruction section which a static-image editing instruction is given [section] to static-image edit equipment, and makes a static image edit into it so that the above-mentioned static image memorized by the above-mentioned static-image storage may be edited according to the static-image edit form chosen by the above-mentioned static-image edit form selection means, It has the printing instruction part which makes it print by giving a printing instruction to an airline printer so that the edited static image on the storage edited by the above-mentioned static-image edit equipment may be printed as a collection of visible static images.

[0012] One example of the actuation flow of the image edit equipment at the time of choosing a static image is shown in drawing 2 from video images, such as a photography image photoed with the video camera 10, or a video image transcription image reproduced by the video tape recorder 11. In drawing 2 , after initialization of image edit equipment 1 is performed in the initialization process 12, the video images 14, such as a video image transcription image reproduced by the photography image or video tape recorder 11 photoed with the video camera 10, are read by image edit equipment 1 in the read in process 13. In the index grant process 15, the indexing to the static image carried out [coma dropping and] through the actuation which carries out coma dropping a static image while an editor operates a keyboard 4 and operates giving a bookmark to an image etc. out of the video image 14 which was read by image edit equipment 1 and displayed on color display equipment 2 is performed. Each static image carried out in the indexing is once incorporated on a storage in the static-image incorporation process 16. Although it progresses to the termination process 20 as it is about what does not have the need for color amendment among the incorporated static images, the static image with which color amendment was performed in the color amendment process 19, and color amendment was performed about what needs to be color amendment is again returned to the index grant process 15 and the static-image incorporation process 16. And in the static-image selection process 17, out of the static image incorporated in the static-image incorporation process 16, a static image to save is chosen and the selected static image is saved in the preservation process 18 at storage.

[0013] According to edit form, a static image is edited into drawing 3 using the selected static image, and one example of the actuation flow of the image edit equipment in the process which manufactures the static-image printed matter used as a memorial stand etc. is shown. In drawing 3 , after initialization of image edit equipment 1 is performed in the initialization process 21, the static image 23 chosen as an object for edit is incorporated by the static-image incorporation equipment of edit equipment 1. In the static-image edit form selection process 22, the static-image edit form which suits the above-mentioned static image incorporated in the static-image

incorporation process is chosen from the static-image edit form files memorized by the storage according to actuation of the keyboard 4 by the editor. Then, in the static-image edit process 25, the above-mentioned static image incorporated in the above-mentioned static-image incorporation process is edited according to the static-image edit form chosen in the static-image edit form selection process 22. Although the static image edited in the static-image edit process 25 is saved on a storage in the preservation process 26, when printing an edited static image as a collection of visible static images, in the printing process 27, it is used as a collection of static images of the gestalt of the printed matter which the static image in the condition of having been edited was printed by the printer 8, for example, was visualized [stand / the data for arrangement, or / memorial].

[0014] As application form collected by the static-image edit form file, although various things can be considered, the following application forms can be considered, for example. Of course, it is not limited to these. As application form for family tales Matrimonial record form, a child's birth record form, a child's growth record form, The record form of an athletic meet, the record form of a travel, the record form of the New Year and a festival, The record form of Christmas, the record form of an idle's concert, the record form of an exhibition, etc. can be considered. As application form for company tales The data form for presentations, person-recognized-for-rendering-distinguished-service commendation record form, worksheet document form, etc. can be considered, and video story form etc. can be considered as application form further for cinema tales.

[0015]

[Effect of the Invention] As mentioned above, according to the image edit approach of this invention, the following effectiveness is acquired.

(1) The image read in process in which an image is read, and the static-image incorporation process in which the static image of the image read in this image read in process is incorporated on a storage, The static-image edit form selection process which chooses the static-image edit form which suits the above-mentioned static image incorporated in this static-image incorporation process from the static-image edit form files memorized by the storage, Since the static-image edit process in which the above-mentioned static image incorporated in the above-mentioned static-image incorporation process is edited according to the static-image edit form chosen in the above-mentioned static-image edit form selection process is included Static images, such as dynamic images, such as a television picture and an image transcription image of video, or a photograph, and drawing, are read. The static image of the read image can be automatically edited into the gestalt which the contents of the whole static image and the outline of a plot can grasp at a glance according to edit form (claim 1).

(2) The image read in process in which an image is read from an image recording medium, and the color amendment process which carries out color amendment about the static image of the read above-mentioned image, The static-image incorporation process in which each above-mentioned static image is incorporated on a storage, The static-image edit form selection process which chooses the static-image edit form which suits the above-mentioned static image incorporated in this static-image incorporation process from the static-image edit form files memorized by the storage, Since the static-image edit process in which the above-mentioned static image incorporated in the above-mentioned static-image incorporation process is edited according to the static-image edit form chosen in the above-mentioned static-image edit form selection process is included Read static images, such as dynamic images, such as a television picture and an image transcription image of video, or a photograph, and drawing, and by carrying out color amendment about the static image of the read image A static image can be incorporated as a clear static image, and it can edit into the gestalt which the contents of the whole static image and the outline of a plot can grasp at a glance automatically according to edit form (claim 2).

(3) Since the printing process which prints the edited static image on the storage edited in the above-mentioned static-image edit process as a visible static image is included, an image [finishing / edit] can be printed for the appearance which can be used as commemoration data and preservation data, such as a memorial stand, (claim 3). Moreover, according to the image edit

equipment of this invention, the following effectiveness is acquired.

(4) The image read in equipment which reads an image, and the static-image incorporation equipment which incorporates and memorizes the static image of the image read by this image read in equipment, A static-image edit form selection means to choose the static-image edit form which suits the above-mentioned static image incorporated by this static-image incorporation equipment from the static-image edit form files memorized by the storage, Since it has static-image edit equipment into which the above-mentioned static image incorporated by the above-mentioned static-image incorporation equipment is edited according to the static-image edit form chosen by the above-mentioned static-image edit form selection means Static images, such as dynamic images, such as a television picture and an image transcription image of video, or a photograph, and drawing, are read. The static image of the read image can be automatically edited into the gestalt which the contents of the whole static image and the outline of a plot can grasp at a glance according to edit form (claim 4).

(5) The image read in equipment which reads an image from an image recording medium, and the color compensator which carries out color amendment about the static image of the read above-mentioned image, A static-image edit form selection means to choose the static-image edit form which suits the static image carried out in color amendment by this color compensator from the static-image edit form files memorized by the storage, Since it has static-image edit equipment into which the static image carried out in the above-mentioned color amendment is edited according to the static-image edit form chosen by the above-mentioned static-image edit form selection means Read static images, such as dynamic images, such as a television picture and an image transcription image of video, or a photograph, and drawing, and by carrying out color amendment about the static image of the read image A static image can be incorporated as a clear static image, and it can edit into the gestalt which the contents of the whole static image and the outline of a plot can grasp at a glance automatically according to edit form (claim 5).

(6) Since it has the airline printer which prints the edited static image on the storage edited by the above-mentioned static-image edit equipment as a visible static image, the edited image can be printed for the appearance which can be used as commemoration data and preservation data, such as a memorial stand, (claim 6).

(7) With the image read in instruction part which an image read in instruction is given [instruction part] to image read in equipment, and makes an image read With the storage instruction part which a storage instruction is given [instruction part] to a storage and makes each above-mentioned static image memorize so that the static image of the image read by the above-mentioned image read in equipment may be memorized The static-image edit form which suits the above-mentioned static image stored in the above-mentioned storage with a storage With the static-image edit form selection instruction part which a static-image edit form selection instruction is given [instruction part] to a static-image edit form selection means, and makes static-image edit form choose so that it may choose from the static-image edit form files memorized The above-mentioned static image memorized by the storage which memorizes the above-mentioned static image with the above-mentioned static-image edit form selection means Since it has the static-image editing-instruction section which a static-image editing instruction is given [section] to static-image edit equipment, and makes a static image edit into it so that it may edit according to the selected static-image edit form Static images, such as dynamic images, such as a television picture and an image transcription image of video, or a photograph, and drawing, are read. The static image of the read image can be automatically edited into the gestalt which the contents of the whole static image and the outline of a plot can grasp at a glance according to edit form (claim 7).

(8) Since it has the color amendment instruction part which a color amendment instruction is given [instruction part] to a color compensator and does color amendment so that color amendment may be carried out about the static image of the above-mentioned image read by the above-mentioned image read in equipment, static images, such as dynamic images, such as a television picture and an image transcription image of video, or a photograph, and drawing, can be read, and a static image can be incorporated as a clear static image by carrying out color amendment about the static image of the read image (claim 8).

(9) Since it has the printing instruction part which makes it print by giving a printing instruction to an airline printer so that the edited static image on the storage edited by the above-mentioned static-image edit equipment may be printed as a visible static image, the edited image can be printed for the appearance which can be used as commemoration data and preservation data, such as a memorial stand, (claim 9).

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the whole image edit equipment block diagram concerning the gestalt of 1 operation of this invention.

[Drawing 2] It is an image edit process explanatory view for explaining the image edit process at the time of carrying out image edit according to the image edit approach concerning the gestalt of 1 operation of this invention.

[Drawing 3] It is an image edit process explanatory view for explaining the image edit process at the time of carrying out image edit according to the image edit approach concerning the gestalt of other operations of this invention.

[Description of Notations]

- 1 Image Edit Equipment
- 2 Color Display Equipment
- 3 Personal Computer
- 4 Keyboard
- 5 SCSI Board
- 6 Hard Disk Drive Unit
- 7 Image Scanner
- 8 Printer
- 9 Video Capture Board
- 10 Video Camera
- 11 Video Tape Recorder
- 12 Initialization Process
- 13 Static-Image Read in Process
- 14 Video Image
- 15 Index Grant Process
- 16 Static-Image Incorporation Process
- 17 Static-Image Selection Process
- 18 Preservation Process
- 19 Color Amendment Process
- 20 Termination Process
- 21 Initialization Process
- 22 Static-Image Edit Form Selection Process
- 23 Static Image
- 24 Static-Image Edit Form File
- 25 Static-Image Edit Process
- 26 Static-Image Preservation Process
- 27 Printing Process

[Translation done.]